

Interferometer Upgrade Kit

FOR STATIC OR PHASE SHIFTING INTERFEROMETERS

Make Use of Your Existing Interferometer

Get the latest hardware and software and save up to 75% over the cost of a new system

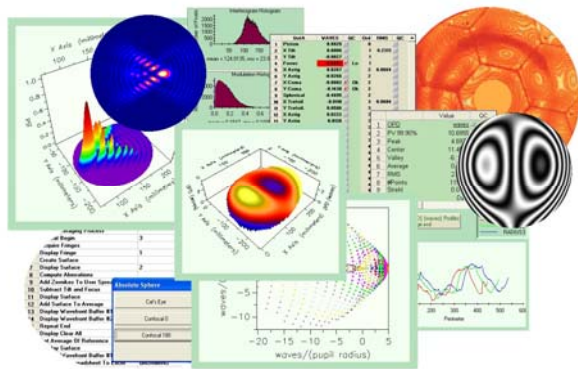
Stop using your out-dated, old-model interferometer for new projects. Any interferometer, including those no longer supported by the original manufacturer, such as the Zygo™ Mark series and the Wyko™ 400 & 6000, can be brought up to speed with the latest phase shifting capabilities and analysis.

What you get with this USER-INSTALLABLE kit:

- **IntelliWave™** Interferogram Analysis Software
- Phase Shift Adapter (for phase shifting option)
- Phase Shift Controller Card
- High Resolution Camera
- Frame Grabber

IntelliWave™ analysis software features:

Fringe Tracing, **IntelliPhase™** – static spatial carrier analysis, PZT Phase Shifting
Peak-to-Valley and RMS
Zernike and Seidel Aberrations
Diffraction Analysis, Geometric Analysis
Slope and Curvature Maps
Analysis Wizards
Plug-in Architecture and Automation Capabilities
Multiple Unwrapping Algorithms
Powerful Automation Scripting Language (150 functions)
Shearing and Speckle Interferometry
Masks: Grouping, Boolean, Scaling
Wizards include: Three Flat Test, Absolute Sphere, Homogeneity, ROC, Parallelism, Prism and Diamond Turning X-Offset Measurements
10 Years of Use by the Industry



Repair Broken Phase Shifting Interferometers

Zygo™ Mark Series

Wyko™ 400 & 6000 Series

ADE™ Phase Shift Minifit

Buccini™

Or Any Twyman-Green, Michelson, or Fizeau Interferometer

Retrofit Static Interferometers with Phase Shifting Capabilities



Complete Phase Shifting Upgrade Kit

Surface & Wavefront Metrology Beyond Compare

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Phase Shifting Upgrade Kit Specifications

Camera	Resolution	Shutter Control	Power Requirement	Size (mm ³)
2/3 " TD-170	768 x 580	Yes	12 V 300 mA	46 x 40 x 79
Phase Shift Adapters				
Phase Shift Adapters	Clear Aperture (mm)	Capacity (mm)	Voltage (V)	Travel (μm)
100-PMR	100	150	10	15
40-PMR	40	60	10	15

Static Upgrade Kit Specifications

Camera	Resolution	Shutter Control	Power Requirement	Size (mm ³)
2/3 " TD-170	768 x 580	Yes	12 V 300 mA	46 x 40 x 79
Phase Shift Carrier				
IntelliPhase™ (static spatial carrier analysis)	Clear Aperture (mm) the same as your interferometer's			

IntelliWave™ Analysis Software:

Acquisition

Acquire from virtually any interferometer
IntelliPhase™ - static spatial carrier analysis
 Fringe Tracing, Phase Shifting, Simultaneous

Complete Interferogram Analysis

The best fringe unwrapping on the market
 Five polynomial sets to choose from
 Diffraction and geometric analysis
 Derivatives and Integrals
 Complex masking including unlimited mask groups
 Fiducials and image transformations

Production

Automation and Quality Control
 3 Flat Test, 2 Sphere Test, Homogeneity, Angle/Wedge, ROC
 Plug-In interfaces to match any application
 Customized Reports

R&D

Interface to MATLAB™, IDL™, LabVIEW™, Excel™
 Client/Server architecture for remote control
 Choose from over 15 different algorithms for data reduction

